

**POLYBENZAZOLE COMPOUND HAVING SULFO GROUP AND/OR PHOSPHONO GROUP, RESIN COMPOSITION CONTAINING THE SAME, MOLDED RESIN, SOLID POLYMER ELECTROLYTE FILM, SOLID ELECTROLYTE FILM/ELECTRODE CATALYST LAYER COMPOSITE, AND PROCESS FOR PRODUCING THE COMPOSITE**

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**Abstract of EP1354907**

An object of the present invention is to obtain a novel polymeric material capable of forming a solid polymer electrolyte excellent not only in processability, solvent resistance and durability/stability but also in ion conductivity by introducing sulfonic acid group or phosphonic acid group into a polybenzazole compound having excellent properties in view of heat resistance, solvent resistance, mechanical characteristics and the like. <??>Means attaining the object of the present invention is a polybenzazole compound including an aromatic dicarboxylic acid bond unit having sulfonic acid group and/or phosphonic acid group and satisfying either a condition that inherent viscosity measured in concentrated sulfuric acid is in the range of 0.25 to 10 dl/g or a condition that inherent viscosity measured in a methanesulfonic acid solution is in the range of 0.1 to 50 dl/g. <??>The object of the present invention can be attained also by a resin composition containing the aforementioned polybenzazole compound, a resin molding, a solid polymer electrolyte membrane, a solid polymer electrolyte membrane/electrode assembly and a method of preparing the solid polymer electrolyte membrane/electrode assembly.

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